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TITLE: Device for wireless measurement of a local physical value.

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ABSTRACT:

<CHG DATE=19940730 STATUS=O> The invention relates to a device for accurately measuring the distribution of local, physical values at a site which is normally inaccessible (for example in living tissue) and for wireless transmission of the measurements and of an identification sign for the transponder transmitting the measurements to an evaluation unit positioned outside the measurement site.

By coordinating the measurement to the site of the transponder, the distribution of the physical values to be measured can be determined. Thus, it is possible, for example, to determine the temperature distribution in a tissue fragment, the bending load at different positions of bones, or the body temperature of various laboratory animals in a cage. Since the energy supply is wireless and is effected by means of an electromagnetic field, the service life of the transponders is not limited by exhaustable energy sources. <IMAGE>